

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 44, Number 4, April 2024

Contents

Reviews

- Adenoid Cystic Carcinoma, Clinical Presentation, Current Treatment and Approaches Towards Novel Therapies. M. ZUPANCIC, A. NÄSMAN, S. FRIESLAND, T. DALIANIS (*Stockholm, Sweden*) 1325

- Clinical Impact of Nutrition and Inflammation Assessment Tools in Colorectal Cancer Treatment. T. AOYAMA, N. YUKAWA, A. SAITO (*Yokohama, Japan*) 1335

- Therapeutic Options Targeting the Ataxia-Telangiectasia Mutated (ATM)-mediated DNA Damage Response, Macropinocytosis, and Adaptive Immunity in Ovarian Cancer. C.-C. TSENG, M.-H. KU, Y.-C. WU, W.-L. HUANG, W.-M. WU, C.H. PAI, C.-W. CHEN (*Hualien, Taiwan, ROC; Sault Ste. Marie, MI, USA*) 1353

- Breath of Danger: Unveiling PM2.5's Stealthy Impact on Cancer Risks. K. MOKBEL (*London, UK*) 1365

Experimental Studies

- The Role of Adipocytokines and their Receptors in Prostate Cancer: Adiponectin May Protect Against Progression. E. KASHIWAGI, T. KAWAHARA, F. KINOSHITA, M. SHIOTA, J. INOKUCHI, H. MIYAMOTO, M. ETO (*Fukuoka; Yokohama, Japan; Rochester, NY, USA*) 1369

- Analysis and Development of Antigen-specific T Cells Derived from Peripheral Blood Mononuclear Cells of Healthy Donors. J. KIM, S. JUNG, B.-K. JEONG, K.-A. KIM, J. JISU, W.S. BANG, B. HAM, J.Y. KIM, Y.-A. KIM, H.J. LEE (*Seoul, Republic of Korea*) 1377

- Acute Lymphoblastic Leukemia With Near-haploid Karyotype and Philadelphia Chromosome. I. PANAGOPOULOS, K. ANDERSEN, H.S. WIK, M.R. TANDSÆTHER (*Oslo, Norway*) 1389

Contents continued on the back cover

Anlotinib Inhibits Ovarian Cancer and Enhances Cisplatin Sensitivity via Suppressing NOTCH2 Expression and Stemness. X. XU, Q. WANG, L. SHEN, Y. SHEN, H. LIU, Y. LIU, Z. YANG, R.M. HOFFMAN, W. FENG (<i>Shanghai, PR China; San Diego, CA, USA</i>)	1399
The Contribution of Double-strand Break Repair Radiation Sensitive Protein 51 Genotypes to Lung Cancer in Taiwan. K.-L. CHIU, S.-C. WANG, C.-H. LI, T.-C. SHEN, L.-H. CHEN, Y.-C. SHEN, W.-S. CHANG, C.-W. TSAI, T.-C. HSIA, D.-T. BAU (<i>Taichung; Taipei, Taiwan, ROC</i>)	1409
Assessment of Therapeutic Effects of Combined Treatment With Cisplatin and Anti-mouse Programmed Death (PD)-1 Antibody in a Mouse Urothelial Cancer Model. R. SATO, K. WATANABE, Y. MATSUSHITA, H. WATANABE, K. TAMURA, D. MOTOYAMA, A. OTSUKA, H. MIYAKE (<i>Hamamatsu; Kobe, Japan</i>)	1417
Role of Peroxiredoxin 1 Induced by Epstein-Barr Virus Infection in Nasopharyngeal Carcinoma. M.H. NOH, H.Y. KIM, D.H. KIM, S.H. MOON, D.Y. HUR (<i>Busan, Republic of Korea</i>)	1425
Validation of Human Bone Marrow-derived Mesenchymal Stem Cells and MCF-7 Breast Cancer Cells Co-culture Using a 3D Perfused Biomimetic Microfluidic Platform. A.M. CIMPEAN, S. COMSA, A. STURZA, A.C. BARB, A.A. COSMA, M.P. FENESAN, C. IONESCU, A.M. ILE, S. SARB, M. CHIS (<i>Timisoara; Targu Mures, Romania</i>)	1441
Different Influence Pattern of Conventional and Alternative Sources of Smoking on Adhesion Molecules and Cytokine Secretion in THP-1 Monocytes. T. MOHR, E. PROBST, C. IDEL, K. PLÖTZE-MARTIN, J. FLECKNER, D. RADES, D. DRÖMANN, S. BOHNET, K.-L. BRUCHHAGE, K.F. FRANZEN, R. PRIES (<i>Lübeck, Germany</i>)	1455
Roles of Matrix Metalloproteinases 2 and 9 in Uterine Leiomyosarcoma. X. WANG, C. LI, L. LOU, H. ZHU (<i>Hangzhou; Shaoxing, PR China</i>)	1465
<i>Hsa_circTCF25</i> Facilitates Oncogenesis in Gastric Cancer Cells by Modulating miR-149 Expression. G. CHEN, J. SHANG, X. FENG, M. LI, H. ZHANG, J. LIU, H. XU (<i>Shanghai, PR China</i>)	1475
Dual Role of Stratum Corneum Carotenes/Lycopene Against the Development of Chemotherapy-induced PPE in Patients With Cancer. M.E. DARVIN, J. LADEMANN, S. JUNG (<i>Berlin, Germany</i>)	1487
Clinical Studies	
Tailoring Radiation Therapy for Patients With Limited Cutaneous T Cell Lymphoma: Preliminary Clinical Experience With Subtotal Skin Electron Therapy. B.S. LAUGHLIN, I. ZANILETTI, M.G. FOSTER, J. LUCIDO, A.R. MANGOLD, A.C. ROSENTHAL, C. VAN DER WALT, W. BREEN, S. LESTER, B. HOPPE, J. PETERSEN, M.D. ARMSTRONG, A. BOGAN, W.G. RULE (<i>Phoenix, AZ; Tampa; Jacksonville, FL; Rochester, MN, USA</i>)	1491
Reduction of Tumor Biomarkers from very High to Normal and Extensive Metastatic Lesions to Undetectability in a Patient With Stage IV HER2-positive Breast Cancer Treated With Low-dose Trastuzumab Deruxtecan in Combination With Oral Recombinant Methioninase and a Low-methionine Diet. M. SATO, Q. HAN, R. MORI, K. MIZUTA, B.M. KANG, S. MORINAGA, N. KOBAYASHI, Y. ICHIKAWA, A. NAKAJIMA, R.M. HOFFMAN (<i>San Diego, CA, USA; Yokohama, Japan</i>)	1499
TCR CDR3-CMV Antigen Chemical Complementaries Are Associated With a Worse Outcome for Renal Cell Carcinoma. L. ALKASSAB, M.J. DIAZ, E.A. FETCHER, T.I. HUDA, S. PAUL, S. KUMAR, A. CHOBRUTSKIY, B.I. CHOBRUTSKIY, J.J. SONG, G. BLANCK (<i>Tampa, FL; Portland, OR, USA</i>)	1505
Colorectal Cancer Screening by Fecal Immunochemical Tests (FIT): Considerations on Sampling and Markers (Hb and Hb/Hp Complex) of Fecal Occult Blood (FOB). K. SYRJÄNEN, M. ESKELINEN, J. MEKLIN, P. HENDOLIN, M. ESKELINEN, O. SUOVANIEMI (<i>Kaarina; Kuopio; Helsinki, Finland; Barretos, Brazil</i>)	1513

Clinically Significant Dermatitis During Adjuvant Radiotherapy for Invasive Breast Cancer. D. RADES, C. KRISTIANSEN, C. TIMKE, M.N. DUMA, N.Y. YU, T. BARTSCHT, S. JANSSEN (<i>Lübeck; Flensburg; Hamburg; Schwerin, Germany; Vejle, Denmark; Phoenix, AZ, USA</i>)	1525
High-risk Patients With Colorectal Liver Metastases Assessed by the Beppu Score Can Have Excellent Survival Through Multidisciplinary Treatment Including Local Ablation. T. BEPPU, K. YAMAMURA, T. MASUDA, H. MIYAMOTO, J. NASU, S. SAITO, K. DOI, T. KATSUMORI, T. ODA, T. ISIKO (<i>Yamaga; Kumamoto; Nobeoka; Arao; Yatsusiro, Japan</i>)	1533
Metabolic Tumor Volume as Significant Predictor for Chemotherapy Containing PD-L1 Blocker in Extensive Stage Small Cell Lung Cancer. K. HASHIMOTO, K. KAIRA, H. IMAI, Y. MIURA, A. SHIONO, A. MOURI, O. YAMAGUCHI, K. KOBAYASHI, H. KAGAMU, I. KUJI (<i>Hidaka, Japan</i>)	1541
Doxorubicin as Risk Factor for Fascial Dehiscence After CRS-HIPEC for Peritoneal Metastases. E. PIZZOLATO, C. CENZI, M. TONELLO, P. PILATI, A. SOMMARIVA (<i>Padua, Italy</i>)	1553
A Real-world Study of Everolimus Plus Aromatase Inhibitor in Hormone Receptor-positive, HER2-negative Advanced Breast Cancer. G. ARDAVANIS-LOUKERIS, S. KOKKALI, K. PERDIKARI, E. KARATRASOGLOU, S. TALAGANI, A. TZOVARAS, A. ARDAVANIS (<i>Athens, Greece</i>)	1559
Clinical Impact of the Lymphocyte-to-Monocyte Ratio in Patients With Gastric Cancer who Received Curative Treatment. T. AOYAMA, I. HASHIMOTO, Y. MAEZAWA, K. HARA, A. TAMAGAWA, H. CHO, M. NUMATA, J. MORITA, M. TANABE, S. KAWAHARA, T. OSHIMA, A. SAITO, N. YUKAWA, Y. RINO (<i>Yokohama; Tokyo, Japan</i>)	1567
Combined Neutrophil-to-Lymphocyte Ratio Score Is Associated With Chemotherapeutic Response and Predicts Prognosis in Patients With Advanced Pancreatic Cancer. H. OKABE, T. MASUDA, M. TOMITA, A. ONO, D. OGAWA, D. KURODA, H. KUROKI, M. HIROTA, T. HIBI, H. BABA, H. SUGITA (<i>Kumamoto, Japan</i>)	1575
Results of Definitive (Chemo)radiotherapy Using Computed Tomography-based Brachytherapy for Cervical Cancer. T. AOSHIKA, S.-E. NODA, T. ABE, Y. KUMAZAKI, R. HIRAI, M. IGARI, S. SAITO, Y. RYUNO, M. IINO, Y. TAKEDA, T. OHTA, J. WATANABE, K. TSUKAHARA, S. KATO (<i>Saitama, Japan</i>)	1583
Surgical Resection of Primary Tumor for Bone Metastatic Breast Cancer Patients at Initial Presentation. N. KITSUYA, M. MATSUOKA, T. ONODERA, I. YOKOTA, K. IWASAKI, Y. SUZUKI, M. HAMASAKI, E. KONDO, N. IWASAKI (<i>Sapporo; Hakodate, Japan</i>)	1591
CD8-positive T Cell Infiltration With Human Leukocyte Antigen Class 1 Expression Predicts Patients With Stage IV Colorectal Cancer Survival. T. SATOYOSHI, Y. HIROHASHI, K. OKUYA, M. MIYO, E. AKIZUKI, M. ISHII, R. MIURA, T. KUBO, K. MURATA, T. KANASEKI, T. TSUKAHARA, I. TAKEMASA, T. TORIGOE (<i>Sapporo, Japan</i>)	1603
Association of Preoperative and Postoperative Plasma Syndecan-1 and Colorectal Cancer Outcome. H. TANAKA, H. HAYASHI, H. TOMITA, Y. TOKUMARU, M. FUKADA, J.Y. TAJIMA, R. YOKOI, H. TSUCHIYA, M. KUNO, Y. SATO, I. YASUFUKU, R. ASAI, R. MORI, Y. TANAKA, N. OKUMURA, M. FUTAMURA, N. MATSUHASHI (<i>Gifu, Japan</i>)	1611
Comparative Effectiveness of Adjuvant Therapy on Survival in Patients With Metastatic Colorectal Cancer. C.-C. WU, C.-C. SU, Y.-H. CHEN, C.-W. HSU, Y.-C. CHANG, Y.-C. SU (<i>Kaohsiung; Taipei; Tainan, Taiwan, ROC</i>)	1619
The CRP-albumin-lymphocyte (CALLY) Index Is an Independent Prognostic Factor for Gastric Cancer Patients who Receive Curative Treatment. T. AOYAMA, Y. MAEZAWA, I. HASHIMOTO, K. HARA, A. TAMAGAWA, K. KAZAMA, A. KATO, H. CHO, M. NAKAZONO, M. NUMATA, S. KAWAHARA, M. TANABE, J. MORITA, T. OSHIMA, A. SAITO, N. YUKAWA, Y. RINO (<i>Yokohama; Tokyo, Japan</i>)	1629

Short- and Long-term Outcomes After Colonic Stent Insertion as a Bridge to Surgery in Elderly Colorectal Cancer Patients. T. SHIRAISHI, T. TOMINAGA, R. ONO, K. NODA, S. HASHIMOTO, K. OISHI, Y. TAKAMURA, T. NONAKA, M. HISANAGA, M. ISHII, H. TAKESHITA, K. TO, K. ISHIMARU, T. SAWAI, T. NAGAYASU (<i>Nagasaki; Saga, Japan</i>)	1637
Risk Factors for Long-term Body Weight Loss After Proximal Gastrectomy: A Retrospective Analysis. Y. AGATSUMA, K. NAKANISHI, C. TANAKA, M. KANDA, D. SHIMIZU, S. UMEDA, K. KURIMOTO, Y. INOKAWA, H. TAKAMI, N. HATTORI, M. HAYASHI, G. NAKAYAMA, M. FUJIWARA, Y. KODERA (<i>Nagoya, Japan</i>)	1645
Gastric Cancer With the Increased Nicotinamide N-methyltransferase-positive Stromal Cells Includes Unfavorable Prognosis-related Cancer-associated Fibroblasts. S. NUMAKURA, H. UOZAKI (<i>Tokyo, Japan</i>)	1653
Radiomics Features Using Dual-energy CT for Lymph Nodes After Preoperative Chemotherapy for Esophageal Cancer. Y. TANAKA, Y. SATO, T. HORAGUCHI, S. FUJIBAYASHI, I. YASUFUKU, T. MIYOSHI, T. KAGA, Y. NODA, D. WATANABE, T. ISHIHARA, M. MATSUO, N. MATSUHASHI (<i>Gifu, Japan</i>)	1661
Change in the Neutrophil-to-Eosinophil Ratio After Avelumab Maintenance for Advanced Urothelial Carcinoma: The UROKYU Study. N. FURUBAYASHI, A. MINATO, T. TOMODA, Y. Hori, K. KIYOSHIMA, T. NEGISHI, Y. HARAGUCHI, T. KOGA, K. HARADA, K. KUROIWA, N. FUJIMOTO, M. NAKAMURA (<i>Fukuoka; Kitakyushu; Oita; Miyazaki, Japan</i>)	1675
Machine-learning Algorithm-based Risk Prediction and Screening-detected Prostate Cancer in a Benign Prostate Hyperplasia Cohort. C.-C. CHANG, J.-K. CHIOU, C.-J. LIN, K. LU, J.-R. LI, L.-W. CHANG, S.-C. HUNG, C.-L. CHENG (<i>Taichung; Taipei, Taiwan, ROC</i>)	1683
Effect of Risk Factor Score on Early Recurrence After Pancreatectomy for Invasive Pancreatic Ductal Adenocarcinoma. M. MATSUMOTO, Y. SHIRAI, K. ABE, Y. FUTAGAWA, K. HARUKI, K. FURUKAWA, S. ONDA, R. HAMURA, Y. TANJI, M. TSUNEMATSU, H. SHIOZAKI, T. OKAMOTO, T. IKEGAMI (<i>Tokyo, Japan</i>)	1695
Utilizing the AJCC 8 th Staging to Discriminate Survival Outcomes in HPV-associated Oropharyngeal Squamous Cell Carcinoma. S.I. KIM, J.W. LEE, Y.-G. EUN, Y.C. LEE (<i>Seoul, Republic of Korea</i>)	1703
Clinical Impact of Preoperative Prognostic Nutritional Index in Surgical Patients With Pancreatic Cancer Treated With Perioperative Adjuvant Chemotherapy. S. KAWAHARA, T. AOYAMA, M. MURAKAWA, R. KANEMOTO, D. TAKAHASHI, Y. KAMIOKA, I. HASHIMOTO, Y. MAEZAWA, S. KOBAYASHI, M. UENO, N. YAMAMOTO, T. OSHIMA, N. YUKAWA, Y. RINO, A. SAITO, S. MORINAGA (<i>Yokohama, Japan</i>)	1711
Impact of Arteriosclerosis on Reconstruction-related Complications After Esophagectomy and Usefulness of Tailor-made Reconstruction Technique. T. YAMAGUCHI, K. OKAMOTO, H. SAITO, M. SHIMADA, T. TSUJI, H. MORIYAMA, J. KINOSHITA, I. NINOMIYA, N. INAKI (<i>Kanazawa; Kahoku; Yotsui, Japan</i>)	1719
Surgical Intervention After Lenvatinib Treatment in Patients With Advanced Hepatocellular Carcinoma. M. OKUNO, E. HATANO, M. TADA, T. NISHIMURA, T. OKAMOTO, H. SUEOKA, K. IIDA, I. NAKAMURA, H. IIJIMA, S. HIRONO (<i>Nishinomiya; Kyoto, Japan</i>)	1727
Clinicopathological Significance of Nucleosome Remodeling and Deacetylase Complex Expression in Endometrial Carcinoma. J. CHU, S.H. LEE, S.-I. DO, H.-S. KIM (<i>Seoul, Republic of Korea</i>)	1739
Patient Age and EGFR-positive Non-small Cell Lung Cancer: A Multicenter Retrospective Study. Y. MAEZAWA, M. TAGUCHI, T. KAWAKAMI, T. INUI, S. OKAUCHI, T. NUMATA, T. SHIOZAWA, K. MIYAZAKI, R. NAKAMURA, K. IGUCHI, T. ENDO, T. SAKAMOTO, H. SATOH, N. HIZAWA (<i>Mito; Noda; Tsukuba; Ibarakimachi; Ryugasaki, Japan</i>)	1751

Safety and Limitations of Laparoscopic Total Gastrectomy for Gastric Cancer: A Comparative Analysis of Short and Long-term Outcomes With Open Surgery. K. MORINO, M. YAMAMOTO, N. SHIMOIKE, Y. IWASAKI, R. YAMANAKA, N. NAKANISHI, R. MATSUSUE, T. MACHIMOTO (<i>Tenri, Japan</i>).....	1759
Association Between Acute Kidney Injury and the Trendelenburg Position Angle During Robot-assisted Radical Prostatectomy. H. MASUDA, Y. AMEMIYA, N. YAGISAWA, T. ARAI, M. YANAGISAWA (<i>Chiba, Japan</i>).....	1767
Effectiveness of Carbon Ion Radiotherapy for Bone and Soft Tissue Sarcoma in Older Patients. H. KINOSHITA, T. YONEMOTO, S. YAMADA, R. IMAI (<i>Chiba, Japan</i>)	1773
Nomogram for Predicting Infectious Complications Following Curative Gastrectomy Using Clinical and Laboratory Parameters. S.-H. HWANG, D.-J. KIM (<i>Seoul, Republic of Korea</i>)	1781
Tumor-induced Osteomalacia Successfully Treated by <i>En Bloc</i> Tumor Excision and Reconstruction Using a Tumor-bearing Frozen Autograft: A Case Report. M.L.S. BANGCOY, S. MIWA, N. YAMAMOTO, K. HAYASHI, H. NISHIDA, A. TAKEUCHI, K. IGARASHI, T. KATO, Y. TANIGUCHI, S. MORINAGA, Y. ASANO, H. TSUCHIYA (<i>Kanazawa, Japan; Manila, Philippines</i>).....	1791
Novel Insights in Genetic Variant Classification. A. CHATZIKYRIAKIDOU (<i>Thessaloniki, Greece</i>).....	1799
Book Reviews.....	1803